

# Oracle WebLogic Server 12c: Administration I

**Duration:**

5 days

This Oracle WebLogic Server 12c: Administration I training teaches you how to install and configure Oracle WebLogic Server 12c. It gives administrators an overview of the basic concepts and architecture of WebLogic Server.

## Course Objectives

Upon completion of this course, the student should be able to:

- Install, configure, and administer Oracle WebLogic Server.
- Monitor domain resources.
- Deploy applications.
- Create a domain.
- Start servers.
- Monitor domain resources.
- Set up and use node manager.
- Deploy applications.
- Configure database resources.
- Configure a cluster.

## Benefits to You

After taking this course, you'll be able to improve the performance and scalability of your organization's applications and services with the #1 application server. You'll simplify deployment and significantly improve time-to-market.

## Prerequisites

- Some experience using basic Linux commands
- Some system administration experience

## Audience

- Administrator
- Developer
- System Integrator
- Systems Administrator

## Course Topics

- 1. Oracle WebLogic Server 12c: Administration I**
  - Demo (Part 01)
  - Demo (Part 02)
- 2. WebLogic Server: Overview**
  - Machines and Clusters
  - WebLogic Diagnostics Framework Dashboard
- 3. Installing and Patching WebLogic Server**
  - Installing WebLogic Server on Linux Graphical Mode

- Practice 3-1: Installing WebLogic Server
- Practice 3-2: Patching WebLogic Server

#### **4. Creating Domains**

- Creating a Domain with the Configuration Wizard
- Overview of Practice
- Practice 4-1: Creating a New Domain
- Practice 4-2: Copying a Domain to a New Machine

#### **5. Starting Servers**

- Suspend and Resume
- WebLogic Server Startup Issues
- Practice 5-1: Starting and Stopping Servers (Part 01)
- Practice 5-1: Starting and Stopping Servers (Part 02)

#### **6. Using the Administration Console**

- Modifying a Resource Example: Server
- Practice 6-1: Using the Administration Console for Configuration

#### **7. Configuring JDBC**

- Deployment of a Data Source
- Creating a Generic Data Source
- Practice 7-1: Configuring a JDBC Data Source

#### **8. Monitoring a Domain**

- Accessing the Logs from the Admin Console
- Debug Scopes: Examples
- Current or Historical Data
- Practice 8-1: Working with WebLogic Server Logs
- Practice 8-2: Monitoring WebLogic Server (Part 01)
- Practice 8-2: Monitoring WebLogic Server (Part 02)

#### **9. Node Manager**

- Configuring the Java-Based Node Manager
- Other Node Manager Properties
- Practice 9-1: Configuring and Using Node Manager

#### **10. Deploying Applications**

- Deployment Plans
- Monitoring Deployed Applications: Admin Console
- The Grinder Console
- Practice 10-1: Deploying an Application
- Practice 10-2: Load Testing an Application

#### **11. Shared Java EE Libraries**

- Configuring a Shared Library in the Manifest File
- Practice 11-1: Configuring and Deploying a Shared Library (Part 01)
- Practice 11-1: Configuring and Deploying a Shared Library (Part 02)

#### **12. Network Channels and Virtual Hosts**

- Administration Port
- Practice 12-1: Configuring a Network Channel
- Practice 12-2: Configuring the Administration Port (Part 01)
- Practice 12-2: Configuring the Administration Port (Part 02)
- Practice 12-3: Creating a Virtual Host

### **13. Clusters: Overview, Creation, and Configuration**

- Creating a Cluster: Configuration Wizard
- Dynamic Server Calculated Attributes
- Practice 13-1: Configuring a Cluster
- Practice 13-2: Configuring a Dynamic Cluster

### **14. Clusters: Proxies and Sessions**

- Proxy Plug-Ins
- mod\_wl\_ohs.conf
- HTTP Session Failover
- Machines
- Practice 14-1: Installing OHS (Optional)
- Practice 14-2: Configuring a Cluster Proxy (Part 01)
- Practice 14-2: Configuring a Cluster Proxy (Part 02)
- Practice 14-3: Configuring Replication Groups (Part 01)
- Practice 14-3: Configuring Replication Groups (Part 02)

### **15. Clusters: Communication, Planning, and Troubleshooting**

- Planning for a Cluster
- Common OHS to WLS Connectivity Issues
- Practice 15-1: Configuring a Replication Channel

### **16. Transactions**

- Java Transaction API (JTA)
- Troubleshooting Transactions
- Practice 16-1: Configuring Transaction Persistence (Part 01 )
- Practice 16-1: Configuring Transaction Persistence (Part 02 )

### **17. WebLogic Server Security**

- What Security Providers Do
- Lightweight Directory Access Protocol (LDAP)
- LDAP Structure
- LDAP Failover
- Practice 17-1: Configuring an Authentication Provider (Part 01)
- Practice 17-1: Configuring an Authentication Provider (Part 02)
- Practice 17-1: Configuring an Authentication Provider (Part 03)

### **18. Backing Up a Domain and Upgrading WebLogic Server**

- Recovery After Disaster
- Practice 18-1: Backing Up and Restoring a Domain

### **19. Oracle Cloud**

- Oracle IaaS Overview

### **20. Oracle Java Cloud Service Overview**